

R-915 Line Dispatch Station Chameleon

General Description

The R-915 Line Dispatch Station Chameleon (LDS Chameleon) is a new-generation PC-workstation application for control and monitoring of mission-critical and business-critical communications. The LDS Chameleon is a powerful and highly flexible solution for managing fleet(s) of mobile and portable radios using voice, status and text messaging.

The LDS Chameleon is fully equipped for monitoring of multiple groups by cooperating teams (pools) of dispatchers. Agency partitioning is provided by means of integrated Virtual Private Networking (VPN) functionality, whereby certain LDS Chameleon workstations may have multi-agency access to enable interoperability.

The LDS Chameleon is suitable for any size of TetraNode network, and designed to operate with all air interface standards supported by TetraNode.

Additional Details

The LDS Chameleon is designed to run on the Microsoft 7 operating system in 32 and 64 bits. Any Windows-supported font (including Cyrillic, Chinese and Arabic) can be used, offering true multi-language support.

The application is designed for ease of use, offering a intuitive user interface whereby all tasks can be completed with a minimum amount of user interactions. Activity in groups and progress of calls are shown in real-time, including the indication of talking party number and name alias, and priority level.

Instant talk back on any group is possible by just clicking the Push to Talk area for that group, even allowing overruling talking users in the group. In emergency situations, the dispatcher can make calls with high priority to pre-empt other calls in order to take-over busy channels or to reach busy subscribers.

The audio from active and monitoring groups are routed to separate speakers. As an option, audio from specific monitoring groups can be routed to separate speakers in the room. Up to six speakers are supported when a 7.1 surround-sound system is available in the PC.

The operator can handle multiple calls simultaneously. The LDS Chameleon can be configured to be member of up to sixteen talk groups, whereby the audio of any of the groups can be simultaneously monitored. Voice calls can be conveniently setup from the phonebook, which contain all subscribers within the fleet(s) and user-defined telephone numbers, and is automatically synchronized with the TetraNode subscriber database.

Incoming calls from the radio and telephone networks are shown within a queue, and can be accepted at the earliest convenience of the dispatcher.

Detailed call logging is available for every received and transmitted voice, short data and status call. An integrated recorder allows instant playback of recent voice calls.

The discreet listening feature allows the operator to monitor on-going calls without being noticed by the users participating in the call. Up to sixteen radio and telephone numbers can be selected for discreet listening, allowing instant monitoring when any of the selected users are engaged in a call. Even received and transmitted text and status messages are shown for the selected users.



Patch and multi-select features allow operators to join groups and individual subscribers for operations where agencies need to cooperate.

The LDS Chameleon can either connect directly to a TetraNode eXchange (TNX) or via an R-817 TetraNode Dispatch Server (TDS) required by + LDS systems . High availability is achieved by instant switchover to redundant equipment and link paths, minimizing disturbance of the operator tasks.

Key Features

- Multi-language user interface
- Entirely customizable, multi-language user interface
- Runs on Microsoft Windows 7 operating system in 32 and 64 bits
- Call management with pooled operators
- Monitor up to 16 simultaneous conversations
- Simultaneous voice and data
- Instant Voice recording and playback
- Support of VPNs (requires TDS)
- Centralized configuration management (requires TDS)
- TIGv2 license included

Technical specifications

- Microsoft Windows operating system
- 600 MHz AMD Geode LX800 CPU
- 512 MB of DDR SDRAM
- 4 GB of flash disk
- 10/100 Mbps Ethernet LAN
- Two USB 2.0 ports
- Audio capabilities
- 6.5" touch screen LCD, 640 x 480 pixels
- Power consumption of 50 Watts maximum
- Supplied with gooseneck microphone
- Integrated speaker, optimised for speech communication

Optional workstation features

- Touch screen monitor
- Second monitor
- Multi-channel audio (6 speakers)
- Three pedal USB foot switch
- Comfortable, high quality headset
- Cryptographic device for End to End Encryption

Mechanical

- Dimensions (W x H x D) 287 x 90 x 170 mm
- Weight 3.1 Kg

Environment

- Operating temperature 0 °C to 45 °C
- Storage temperature -20 °C to 65 °C
- Humidity < 95%, non-condensing

Call functions

- Group calls: one active and up to eight scanning
- Group call selection: one out of sixteen groups
- Individual call, simplex and duplex
- Status and text messaging
- PABX and PSTN calls

Supplementary services

- Call Identification
- Talking Party Identification
- Priority Call
- Pre-emptive Priority Call (resource and subscriber)
- Subscriber Diversion
- Include Call
- Transfer Call
- Remote Enable and Disable
- Call Forwarding
- Call Authorized by Dispatcher
- Dynamic Group Number Assignment
- Patch subscriber, group and PABX call
- Multi-cast subscriber, group and PABX call
- Discreet Listening
- Join Existing Call
- Ambience Listening
- Last Call Recorder
- End-to-End Encryption supporting AES-128 / 256 according SFPG recommendation 02 version 5 (option)

Ordering specifications

Deliverable system

- R-915
 - L-XXXX Chameleon application
 - R-XXXX Standard PC
 - R-812 USB Desktop Microphone
 - High Quality speakers (Bose Companion 2 Speakers)
- S-915
 - L-XXXX Chameleon application
 - R-812 USB Desktop Microphone

Accessories

- Extra LCD monitor
- For optional support of AES-128 and AES-256 End-to-End Encryption, the LDS-Chameleon can be supplied with a FIPS 140-2 level 2 compliant hardware cryptographic device, which offers sophisticated anti-tamper protection and highly secure separation between encrypted and unencrypted parts of the circuitry.

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TetraNode Mission Critical Communications